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INTERNATIONAL SEARCH REPORT

International application No.
PCT/AU2004/001765

A. CLASSIFICATION OF SUBJECT MATTER		
Int. Cl.?: F03C 1/053; F16H 21/20; F16C 3/28		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) See below under "Electronic databases searched"		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched USPTO, AU : IPC : F16H 21/20; F16C 3/28		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI : IPC : F01B, F03C, F04B with keywords crankshaft, piston, vary+ stroke? And similar terms F16H 21/20; F16C 3/28		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	DE 3936649A1 (VON INGELHEIM) 8 May 1991 The whole document The whole document	1, 15, 16 2, 3
Y	Derwent Abstract Accession No. 84-010498/02, Class Q51, SU 1002611A (KHARKOV POLY) 7 March 1983 Abstract and Figure	2
Y	Derwent Abstract Accession No. 93-376154/47, Class Q56, Q62, SU 1775007A3 (HYDRAULIC EQUIP CONS TECHN INST) 7 November 1992 Abstract and Figure	3
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C		<input checked="" type="checkbox"/> See patent family annex
<p>* Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&" document member of the same patent family</p>		
Date of the actual completion of the international search 4 February 2005	Date of mailing of the international search report 10 FEB 2005	
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaaustralia.gov.au Facsimile No. (02) 6285 3929	Authorized officer ASANKA PERERA Telephone No : (02) 6283 2373	

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Derwent Abstract Accession No. 94-063790/08, Class Q56, Q62, SU 1789750A1 (HYDRAULIC EQUIP CONS TECHN INST) 23 January 1993 Abstract and Figure	1, 15, 16
X	US 5588339A (DULGER) 31 December 1996 The whole document	1, 15, 16
X	Derwent Abstract Accession No. 1999-453525/38, Class Q56, JP 11190326A (TM JAPAN KK) 13 July 1999 Abstract and Figure	1, 15, 16
X	DE 3711729A1 (SMIDRKAL) 27 October 1988 The whole document	1, 15, 16
X	EP 0271456B1 (SIAPA S.p.A.) 15 June 1988 The whole document	1, 15, 16
A	GB 2219836A (HENIGES) 20 December 1989 Abstract and figure	1-16
A	Derwent Abstract Accession No. 94-365121/45, Class Q55, SU 1825399 A3 (TOMSK POLY) 30 June 1993 Abstract and Figure	12

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Information on patent family members

International application No.

PCT/AU2004/001765

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member					
DE	3936649						
US	5588339	CN	1119715	DE	4332947	JP	7071364
JP	11190326						
DE	3711729						
EP	0271456						
GB	2219836	AU	36008/89	DE	3919341	FR	2633012
		JP	2042237	SE	8902226	US	4887560

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX